

CLAIMS

1. An external programming device (10) for an implant (100) such as a cardiac pacemaker, defibrillator or the like, comprising a receiving unit (102) for receiving data on the part of the implant (100), which represent time-variable signals which are intracardially recorded or generated in the implant (100), such as an intracardial electrocardiogram (ECG), and a display (72) with actuating unit (106) which are adapted to represent signals forming the basis of the received data, such as for example the intracardial ECG,

characterised by a switching unit (110, 106, 108) which is connected to the actuating unit (106) of the display and adapted to switch the representation of time-continuous signals such as the intracardial ECG between a first representation mode and at least one second representation mode,

wherein representation of the time-continuous signals is effected in the first mode continuously in that current display values are respectively represented at always the same horizontal display position and representation of all preceding signal values with representation of a respective new current signal value is represented on the display (72) displaced horizontally towards the left or the right, and

wherein representation of the time-continuous signals is effected in the second mode continuously in that current signal values are respectively represented at a new display position of the display adjoining preceding signal values while preceding signal values maintain their respective display position.

2. A programming device (10) as set forth in claim 1 characterised in that representation of the display values in the second mode is effected continuously from left to right in that signal values which have already been represented maintain their representation location and the representation is respectively extended with each arriving signal value, starting from a left-

hand representation edge (154), until the representation of the signal values has reached a right-hand representation edge (150).

3. A programming device (10) as set forth in claim 2 characterised in that the representation is extinguished when the right-hand representation edge (150) is reached and is begun afresh with a respectively current signal value at the left-hand representation edge (154).

4. A programming device (10) as set forth in claim 1 characterised in that the representation of the display values in the first mode is effected continuously in such a way that respective current signal values are represented at a right-hand representation edge (150) and preceding signal values are simultaneously displaced towards the left by a display position but are not represented beyond a left-hand representation edge (154).

5. A programming device (10) as set forth in claim 1 characterised in that the switching unit (110, 106, 108) is connected to a switching element in such a way that switching from the first to the second mode and vice-versa is effected by touching the switching element or by pressing on the switching element.

6. A programming device (10) as set forth in claim 5 characterised in that the switching element is a press switch arranged beside the display (72).

7. A programming device (10) as set forth in claim 5 characterised in that the switching element is formed by a defined region (switching surface) of the display (72) and the display is touch-sensitive or pressure-sensitive at least in that region.